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## ARTICLE 11 AMENDMENTS (second)



## AMENDMENT (Translation) (Amendment under Art. 11)

To: Commissioner, Patent Office

1. Identification of the International Application

- PCT/JP03/12497
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- 4. Dated June 21, 2005
- 5. Object of Amendment Specification and Claim
- 20 6. Contents of amendment
  - (1) In the specification, page 3, line 14 to page 4, line 1, "In the present invention, in each calculation period, ... can be reduced, thus, there is no need to use an expensive CPU." is amended to
- "In the present invention, an inverter device includes an output-voltage calculating unit that calculates an output voltage command value based on a frequency command value for driving a motor and a state quantity of the motor, in each calculation period; a PWM-pattern generating unit that outputs a PWM signal according to the output-voltage command value output by the output-voltage calculating unit; and a switching unit that switches a direct voltage according to the PWM signal output by the PWM-pattern

generating unit and supplies an alternating voltage with a predetermined frequency to the motor. The output-voltage calculating unit includes a function of calculating a larger number of output-voltage command values, when the frequency command value is greater than a predetermined value, than a case of being smaller than the predetermined value.

According to the present invention, the calculation load at a low speed area can be reduced. Furthermore, a time for calculation only when the output frequency is low can be ensured. The calculation includes, for example, an error correction of an output voltage due to a time for prevention of upper and lower arm short-circuit of the switching circuit."

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(2) The whole claim 3 is amended to

"An inverter device comprising:

an output-voltage calculating unit that calculates an output voltage command value based on a frequency command value for driving a motor and a state quantity of the motor, in each calculation period;

a PWM-pattern generating unit that outputs a PWM signal according to the output-voltage command value output by the output-voltage calculating unit; and

a switching unit that switches a direct voltage according to the PWM signal output by the PWM-pattern generating unit and supplies an alternating voltage with a predetermined frequency to the motor, wherein

the output-voltage calculating unit includes

a function of calculating a larger number of output-voltage command values, when the frequency command value is greater than a predetermined value, than a case of being smaller than the predetermined value."